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FOREWORD

Quality of product has always been important. In earlier times it was primarily the product of good raw materials and craftsmanship. The invention of mass production brought new emphasis to the problem of reproducibility. The gradual recognition of inherent variability, the development of sampling theory and practice, and the invention of the control chart turned the spotlight on statistical techniques as applied to problems of quality.

So spectacular have been some of the statistical applications that some people have lost sight of the fact that statistical techniques are merely a means to an end. They are tools which properly used may help achieve product quality.

An examination of the subjects presented in these Transactions over the twelve year span of their publication reveals the many ramifications of modern industrial quality control. The leading business and industrial areas according to the frequency of papers published have been

1. Metals	53
2. Chemicals	40
3. Armed Services	36
4. Aircraft	35
5. Electronics	26
6. Textiles	22
(Automotive	22

The principal aspects of business and industry discussed have been

1. Inspection and Testing	47
2. Management of Q. C.	41
3. Administrative Applications	40
4. Standards	17
5. Vendor Consumer Relations	16

Other papers have been concerned with such subjects as automation (3), industrial engineering (10), inventories (4), maintenance (3), operations research (11), and research and development (10).

The most frequently discussed statistical subjects have been

1. Sampling	45
2. Control Charts	38
3. Statistical Tests	29
4. Design of Experiments	20
5. Reliability	14
6. Analysis of Variance	12

Consolidating the above lists gives the following seven most frequently discussed subjects

1. Metals	53
2. Inspection and Testing	47
3. Sampling	45
4. Management	41
5. Chemicals	40
6. Administrative Applications	40
7. Control Charts	38

It is evident there is keen interest in how to effectively manage quality control activities, and their application in specific industrial and business areas.

Here, then, in these Transactions is provided one way of appraising the highly diversified nature of the field of modern industrial quality control.

These Transactions constitute a record of the presentations at the National Convention. They have not been subjected to review by the Editorial Board of the Society. The timetable for planning our conventions precludes this at the present time. After the Convention, the papers will be reviewed by the Editorial Board and certain of them may appear in "Industrial Quality Control".

Request for permission to reprint any portion of these Transactions should be addressed to Professor Mason E. Wescott, Chairman, Editorial Board, University College, Rutgers University, New Brunswick, New Jersey.

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Edward M. Schrock
National Transactions Chairman
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There was no publication in 1948. The 1949 publication consisted of abstracts. In 1950 there were ten papers separately bound and numbered from one to ten. The listings for that year are therefore the number of the paper. The listings for other years are all page numbers.

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The A. S. Q. C. book booth for the 1958 convention is being jointly operated by A. S. Q. C., and the BOOK CLEARING HOUSE of Boston which services research plants in the area surrounding the city.

In addition to the display of a quantity of titles, most of which are listed below for your convenience, the books on display at the convention book booth will include both titles which will have been published by June first, and older titles directly concerned with, and relating to, Quality Control, plus an assortment of books for your diversion.

With each purchase of \$5.00 or more, there will be FREE MAILING to your home or office.

There will also be a few AUTOGRAPHING SESSIONS for authors who will be attending the convention. The schedules will be posted on the bulletin board in the lobby of the hotel each morning. It will give you a chance to consult with the men who are the best in YOUR field.

To keep abreast of what is developing in the field of quality control, come prepared to spend some time at the convention book booth.

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ASTM: STATISTICAL QUALITY CONTROL

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